## What is claimed is:

- 1. An isolated nucleic acid molecule selected from the group consisting of:
  - (a) the DNA sequence of SEQ ID NO:1;
- (b) an isolated nucleic acid molecule encoding an amino acid sequence comprising the sequence of SEQ ID NO:2;
- (c) an isolated nucleic acid molecule that hybridizes to either strand of a denatured, double-stranded DNA comprising the nucleic acid sequence of (a) or (b) under conditions of moderate stringency in 50% formamide and 6XSSC, at 42°C with washing conditions of 60°C, 0.5XSSC, 0.1% SDS;
- (d) an isolated nucleic acid molecule derived by in vitro mutagenesis from SEQ ID NO:1; or
- (e) an isolated nucleic acid molecule degenerate from SEQ ID NO:1 as a result of the genetic code.
- 2. A recombinant vector that directs the expression of the nucleic acid molecule of claim 1.
  - 3. An isolated polypeptide encoded by the nucleic acid molecule of claim 1.
  - 4. Isolated antibodies that bind to a polypeptide of claim 3.
- 5. Isolated antibodies according to claim 4, wherein the antibodies are monoclonal antibodies.
  - 6. A host cell transfected or transduced with the vector of claim 2.

7. A method for the production of an RGL polypeptide comprising culturing a host cell of claim 6 under conditions promoting expression, and recovering the polypeptide from the culture medium.

- 8. The method of claim 7, wherein the host cell is selected from the group consisting of bacterial cells, yeast cells, plant cells, and animal cells.
- 9. The composition of claim 3 further comprising a pharmaceutically acceptable carrier selected from the group consisting of water, oils, alcohols, salts, fatty acids, saccharides, polysaccharides and combinations thereof.
- 10. A diagnostic kit comprising the polypeptide of claim 3 for the detection of neoplastic disease.
- 11. The kit of claim 10 wherein the neoplastic disease is a genitourinary cancer or metastatic disease.
- 12. The kit of claim 11 wherein the genitourinary cancer or metastatic disease is prostate cancer.
- 13. An isolated RGL receptor protein or portion thereof which binds to the polypeptide of claim 1.
  - 14. An isolated nucleic acid molecule selected from the group consisting of:(a) the DNA sequence of SEQ ID NO:3;

(b) an isolated nucleic acid molecule encoding an amino acid sequence comprising the sequence of SEQ ID NO:4;

- (c) an isolated nucleic acid molecule that hybridizes to either strand of a denatured, double-stranded DNA comprising the nucleic acid sequence of (a) or (b) under conditions of moderate stringency in 50% formamide and 6XSSC, at 42°C with washing conditions of 60°C, 0.5XSSC, 0.1% SDS;
- (d) an isolated nucleic acid molecule derived by in vitro mutagenesis from SEQ ID NO:3; and
- (e) an isolated nucleic acid molecule degenerate from SEQ ID NO:3 as a result of the genetic code.
- 15. A recombinant vector that directs the expression of the nucleic acid molecule of claim 14.
  - 16. An isolated polypeptide encoded by the nucleic acid molecule of claim 14.
  - 17. Isolated antibodies that bind to a polypeptide of claim 16.
- 18. Isolated antibodies according to claim 17, wherein the antibodies are monoclonal antibodies.
  - 19. A host cell transfected or transduced with the vector of claim 15.

20. A method for the production of an RGL polypeptide comprising culturing a host cell of claim 19 under conditions promoting expression, and recovering the polypeptide from the culture medium.

- 21. The method of claim 20, wherein the host cell is selected from the group consisting of bacterial cells, yeast cells, plant cells, and animal cells.
- 22. The composition of claim 16 further comprising a pharmaceutically acceptable carrier selected from the group consisting of water, oils, alcohols, salts, fatty acids, saccharides, polysaccharides and combinations thereof.
- 23. A diagnostic kit comprising the polypeptide of claim 16 for the detection of neoplastic disease.
- 24. The kit of claim 23 wherein the neoplastic disease is a genitourinary cancer or metastatic disease.
- 25. The kit of claim 24 wherein the genitourinary cancer or metastatic disease is prostate cancer.
- 26. An isolated RGL receptor protein or portion thereof which binds to the polypeptide of claim 16.
  - 27. A polypeptide comprising an amino acid sequence of SEQ ID NO.: 4.

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- 28. The polypeptide of claim 27 wherein the polypeptide has an anti-neoplastic activity.
  - 29. The polypeptide of claim 27 comprising amino acids 105-113 of SEQ ID NO.:
- 30. The polypeptide of claim 29 wherein the polypeptide has an anti-neoplastic activity.
- 31. The polypeptide of claim 29 wherein the polypeptide is capable of inducing apoptosis in a neoplastic cells.
- 32. An antibody which is reactive against an polypeptide comprising SEQ ID NO.:
  - 33. The antibody of claim 32 which is a monoclonal antibody.
  - 34. A hybridoma which produces the monoclonal antibody of claim 33.
- 35. A diagnostic kit comprising the antibody of claim 32 for the detection of neoplastic disease.
- 36. The kit of claim 35 wherein the neoplastic disease is a genitourinary cancer or metastatic disease.

37. The kit of claim 36 wherein the genitourinary cancer or metastatic disease is prostate cancer.

- 38. A vaccine comprising at least a portion of the polypeptide of SEQ ID NO.: 4.
- 39. A method for treating a patient comprising administering to the patient a therapeutically effective amount of a composition comprising at least an active portion of the polypeptide of SEQ ID NO.: 4.
  - 40. The method of claim 39 wherein the polypeptide has anti-neoplastic activity.
- 41. The method of claim 40 wherein the anti-neoplastic activity is a modulation of chemokine expression.
- 42. The method of claim 40 wherein the anti-neoplastic activity is a modulation of cytokine expression.
- 43. The method of claim 39 wherein the therapeutically effective amount of the composition is administered locally to a tumor site, systemically, or parenterally.
- 44. A method for treating a patient comprising administering to the patient a therapeutically effective amount of a composition comprising at least an active portion of the polypeptide of SEQ ID NO.: 2.
  - 45. The method of claim 44 wherein the polypeptide has anti-neoplastic activity.

46. The method of claim 45 wherein the anti-neoplastic activity is a modulation of chemokine expression.

- 47. The method of claim 45 wherein the anti-neoplastic activity is a modulation of cytokine expression.
- 48. The method of claim 44 wherein the therapeutically effective amount of the composition is administered locally to a tumor site, systemically, or parenterally.
- 49. A composition for the treatment or prevention of a metastatic disorder comprising a recombinant vector comprising a promoter for the RGL gene functionally linked to an gene that has anti-neoplastic activity.
  - 50. The composition of claim 49 wherein the metastatic disorder is prostate cancer.
- 51. The composition of claim 49 wherein the anti-neoplastic activity is an altering of chemokine expression.
- 52. The composition of claim 49 wherein the anti-neoplastic activity is an altering of cytokine expression.
- 53. A method for treating a patient with a metastatic disorder comprising administering to the patient a therapeutically effective amount of a composition comprising at least a portion of the nucleotide of SEQ ID NO.: 1.

54. The method of claim 53 wherein the nucleotide encodes a polypeptide which has anti-neoplastic activity.

- 55. The method of claim 54 wherein the anti-neoplastic activity is a modulation of chemokine expression.
- 56. The method of claim 54 wherein the anti-neoplastic activity is a modulation of cytokine expression.
- 57. The method of claim 53 wherein the therapeutically effective amount of the composition comprises an adenoviral vector.
- 58. A method for treating a patient with a metastatic disorder comprising administering to the patient a therapeutically effective amount of a composition comprising at least a portion of the nucleotide of SEQ ID NO.: 3.
- 59. The method of claim 58 wherein the nucleotide encodes a polypeptide which has anti-neoplastic activity.
- 60. The method of claim 59 wherein the anti-neoplastic activity is a modulation of chemokine expression.
- 61. The method of claim 59 wherein the anti-neoplastic activity is a modulation of cytokine expression.

62. The method of claim 58 wherein the therapeutically effective amount of the composition comprises an adenoviral vector.